

(12) **United States Patent**
Reeves et al.

(10) **Patent No.:** **US 8,874,894 B2**
(45) **Date of Patent:** ***Oct. 28, 2014**

(54) **UNIFIED DESKTOP WAKE AND UNLOCK**

(75) Inventors: **Paul E. Reeves**, Oakville (CA); **Sanjiv Sirpal**, Oakville (CA); **Martin Gimpl**, Helsinki (FI)

(73) Assignee: **Z124**, George Town (KY)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

9/4443 (2013.01); G06F 1/1601 (2013.01);
H05K 7/02 (2013.01); H05K 7/1452 (2013.01);
G06F 3/04883 (2013.01); G09G 1/00
(2013.01); B29D 11/00673 (2013.01); G06F
3/0481 (2013.01); H05K 13/046 (2013.01);
G06F 3/1423 (2013.01); G06F 3/048
(2013.01); H05K 5/0226 (2013.01)

USPC 713/100; 713/320; 345/1.1; 345/1.3
(58) **Field of Classification Search**
CPC G09G 5/12; G06F 1/1647
USPC 713/100, 320; 345/1.1, 1.3
See application file for complete search history.

(21) Appl. No.: **13/485,734**

(22) Filed: **May 31, 2012**

(65) **Prior Publication Data**

US 2013/0219162 A1 Aug. 22, 2013

Related U.S. Application Data

(60) Provisional application No. 61/539,884, filed on Sep. 27, 2011.

(51) **Int. Cl.**
G06F 1/24 (2006.01)
G09G 5/12 (2006.01)

(Continued)

(52) **U.S. Cl.**
CPC .. **G06F 9/44** (2013.01); **G09G 5/34** (2013.01);
G06F 1/1641 (2013.01); **G06F 1/1616**
(2013.01); **H04N 5/44591** (2013.01); **G06T**
3/00 (2013.01); **H05K 5/04** (2013.01); **G06F**
3/01 (2013.01); **E05D 3/12** (2013.01); **G09G**
5/00 (2013.01); **G06F 1/1637** (2013.01); **G06F**
3/04897 (2013.01); **G06F 3/1438** (2013.01);
G06F 3/0412 (2013.01); **H05K 5/0017**
(2013.01); **G06F 3/041** (2013.01); **G06F**
3/0483 (2013.01); **H04M 1/0266** (2013.01);
H05K 13/00 (2013.01); **G02B 6/0001**
(2013.01); **G06F 3/1446** (2013.01); **G06F**

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,467,102 A 11/1995 Kuno et al.
5,694,150 A 12/1997 Sigona et al.

(Continued)

OTHER PUBLICATIONS

U.S. Appl. No. 13/843,086, filed Mar. 15, 2013, Reeves et al.

(Continued)

Primary Examiner — Vincent Tran

(74) *Attorney, Agent, or Firm* — Sheridan Ross P.C.

(57) **ABSTRACT**

Methods and devices for selectively presenting a user interface or “desktop” across two devices are provided. More particularly, a unified desktop is presented across a device and a computer system. The unified desktop acts as a single user interface that presents data and receives user interaction in a seamless environment that emulates a personal computing environment. To function within the personal computing environment, the unified desktop includes a sleep state where both the device and computer system become inactive. The unified desktop may be awakened by one of numerous actions by the unified system or the user.

20 Claims, 44 Drawing Sheets

